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				web-based collections
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NEWS	2.4	JUN	20	patent records EMBASE, EMBAL, and LEMBASE updated with additional
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NEWS	20	JUL	28	STN Viewer performance improved
NEWS		AUG		INPADOCDB and INPAFAMDB coverage enhanced
NEWS	22	AUG	13	CA/CAplus enhanced with printed Chemical Abstracts
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NEWS		AUG		CAOLD to be discontinued on December 31, 2008
NEWS		AUG		CAplus currency for Korean patents enhanced
NEWS	25	AUG	25	CA/CAplus, CASREACT, and IFI and USPAT databases enhanced for more flexible patent number searching
NEWS	26	AUG	27	CAS definition of basic patents expanded to ensure
				comprehensive access to substance and sequence
				information
NEWS	27	SEP	18	Support for STN Express, Versions 6.01 and earlier,
				to be discontinued

NEWS 28 SEP 25 CA/CAplus current-awareness alert options enhanced to accommodate supplemental CAS indexing of exemplified prophetic substances

NEWS 29 SEP 26 WPIDS, WPINDEX, and WPIX coverage of Chinese and and Korean patents enhanced

NEWS 30 SEP 29 IFICLS enhanced with new super search field

NEWS 31 SEP 29 EMBASE and EMBAL enhanced with new search and display fields

NEWS 32 SEP 30 CAS patent coverage enhanced to include exemplified prophetic substances identified in new Japanese-language patents

NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3, AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

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6 10
ring nodes :
1 2 3 4 5 7 8 9 11 12 13 14 15 16 17 18 19 20 21 22
chain bonds :
1-6 4-14 7-18 9-10
ring bonds :
1-2 1-5 2-3 2-7 3-4 3-9 4-5 7-8 8-9 11-12 11-16 12-13 13-14 14-15 15-
17-18 17-22 18-19 19-20 20-21 21-22
exact/norm bonds :
1-2 1-5 1-6 2-3 2-7 3-4 3-9 4-5 7-8 8-9 9-10
exact bonds :
4-14 7-18
normalized bonds :
11-12 11-16 12-13 13-14 14-15 15-16 17-18 17-22 18-19 19-20 20-21 21-22
isolated ring systems :
containing 1 : 11 : 17 :
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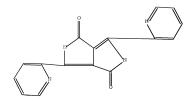
Match level :

chain nodes :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:Atom 8:Atom 9:Atom 10:CLASS 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom 21:Atom 20:Atom 20:At

L1 STRUCTURE UPLOADED

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=> s L1 SSS full

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13 ANSWERS

L2 13 SEA SSS FUL L1

L3 9 L2

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YOU HAVE REQUESTED DATA FROM 9 ANSWERS - CONTINUE? Y/(N):v

ANSWER 1 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2007:1151141 CAPLUS Full-text DOCUMENT NUMBER: 147:460224

TITLE: Field-effect transistors

INVENTOR(S): Ikeda, Masaaki; Kuwahara, Hirokazu; Adachi, Chihaya

PATENT ASSIGNEE(S): Nippon Kayaku Co., Ltd., Japan SOURCE: Jpn. Kokai Tokkyo Koho, 24pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2007266285	A	20071011	JP 2006-89045	20060328
PRIORITY APPLN. INFO.:			JP 2006-89045	20060328

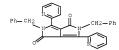
RN

- FETs use, as semiconductors, the compds. (I), where X1, X2 = O, S or Se; and AB R1-4 = H, or aliphatic hydrocarbon or aromatic groups which may be substituted.
- 88949-26-2 952146-72-4 RL: TEM (Technical or engineered material use); USES (Uses) (FETs using organic compound semiconductors)
- 88949-26-2 CAPLUS CN Pyrrolo[3,4-c]pyrrole-1,4-dione, 2,5-dihydro-3,6-di-2-pyridinyl- (CA INDEX NAME)



952146-72-4 CAPLUS

Pyrrolo[3,4-c]pyrrole-1,4-dione, 2,5-dihydro-2,5-bis(phenylmethyl)-3,6-di-2-pyridinyl- (CA INDEX NAME)



L3 ANSWER 2 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2006:968820 CAPLUS Full-text

DOCUMENT NUMBER: 146:92118

TITLE: Correlation between H2 gas sensitivity and structure of o-, m- and p-dipyridyldiketopyrrolopyrroles as

viewed from the electron delocalization within the

molecular and the crystal structure

AUTHOR(S): Hirota, Tsuyoshi; Imoda, Tomohiko; Takahashi, Hiroo;

Mizuquchi, Jin

CORPORATE SOURCE: Grad. Sch. of Engineering, Yokohama National Univ., 79-5 Tokiwadai, Hodogaya-ku, Yokohama, 240-8501, Japan

Nippon Gazo Gakkaishi (2006), 45(4), 328-336

CODEN: NGGAFI; ISSN: 1344-4425

Nippon Gazo Gakkai

PUBLISHER:

DOCUMENT TYPE: Journal LANGUAGE: English

SOURCE:

ΔR The authors have previously developed a high-sensitive H2 gas sensor using a high proton affinity of p dipyridyldiketopyrrolopyrrole (p-DPPP). The sensor exhibits a remarkable reduction of the elec. resistivity by two orders of magnitude under 0.05% H2 due to protonation at the parasite of the pyridyl ring. The present outstanding result motivated one to further study o- and mderivs, to achieve an even better performance. However, the performance of these isomers was extremely poor. For this reason, the present study was carried out to clarify the mechanism of the poor sensitivity from the standpoint of the electron delocalization (i.e. electron conduction) within the mol. as well as the electron hopping from one mol. to another (i.e. structural problem). As for the electron delocalization in p-DPPP, the change in electron d. at the para-site (due to e.g. protonation) is well propagated throughout the mol., while those at the o- and m-sites are ineffective. This explains why p-DPPP is much superior for H2 gas sensors to o- and m-DPPPs. Another support is also given by the structure anal. of o-, m-, and p-derivs.

The N atom of the pyridyl ring (that serves as the antenna for protonation) remains unbonded (i.e. free) in p-DPPP and is capable of accepting protons. However, the N atoms are totally blocked by the formation of NH···N hydrogen bonds in o- and m-DPPPs. The above mol. and crystallog. considerations lead one to conclude that p-DPPP is, by far, advantageous to H2 sensors over o- and

88949-36-2, 1,4-Diketo-3,6-bis-(3'-pyridyl)-pyrrolo-[3,4-c]pyrrole

RL: ARG (Analytical reagent use); PRP (Properties); ANST (Analytical study); USES (Uses)

(correlation between hydrogen gas sensitivity and structure of o-, mand p-dipyridyldiketopyrrolopyrroles as viewed from the electron delocalization within the mol. and the crystal structure)

RN 88949-26-2 CAPLUS

CN Pyrrolo[3,4-c]pyrrole-1,4-dione, 2,5-dihydro-3,6-di-2-pyridinyl- (CA INDEX NAME)



REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2005:1271611 CAPLUS Full-text

DOCUMENT NUMBER: 144:350567

TITLE: Microwave-assisted rapid synthesis of

1,4-diketo-pyrrolo[3,4-c]-pyrrole derivatives under

solvent-free conditions

AUTHOR(S): Shaabani, Ahmad; Dabiri, Minoo; Bazgir, Ayoob; Gharanjig, Kamaladin

CORPORATE SOURCE:

Department of Chemistry, Shahid Beheshti University, Tehran, 19396-4716, Iran

Dyes and Pigments (2005), Volume Date 2006, 71(1),

68-72

CODEN: DYPIDX; ISSN: 0143-7208

PUBLISHER: Elsevier Ltd. DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 144:350567

The 1,4-diketo-pyrrolo[3,4-c]-pyrrole derivs. are easily synthesized by the reaction of aryl nitriles with Et lpha-bromoacetate by using of the activator Zn-Cu couple in good yields upon exposure to microwave irradiation under solventfree conditions and reaction times are considerably reduced.

88949-26-2P

SOURCE:

RL: SPN (Synthetic preparation); PREP (Preparation) (microwave-assisted preparation of 1,4-diketo-pyrrolopyrrole derivs. by

reaction of aryl nitriles with Et α-bromoacetate by using of zinc-copper complex activator under solvent-free conditions)

88949-26-2 CAPLUS RN



REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 4 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2005:599629 CAPLUS Full-text

DOCUMENT NUMBER: 143:240876

TITLE: Hydrogen gas sensor utilizing a high proton affinity of pyrrolopyrrole derivatives

AUTHOR(S): Takahashi, H.; Mizuguchi, J.

CORPORATE SOURCE: Department of Applied Physics, Graduate School of

Engineering, Yokohama National University, Yokohama, 240-8501, Japan

SOURCE:

Journal of the Electrochemical Society (2005), 152(6), H69-H73

CODEN: JESOAN: ISSN: 0013-4651 PUBLISHER:

Electrochemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

A high-performance hydrogen gas sensor was developed that uses a proton affinity of 1,4-diketo-3,6-bis-(4'-pyridyl)-pyrrolo-[3,4-c]-pyrrole (DPPP) known as a red pigment. The N atom of the pyridyl ring of the DPPP can easily be protonated by protons dissociated from H2 to induce a remarkable change in elec. conductivity by several orders of magnitude. The H2 sensor operates in two steps: the 1st step is the dissociation of H2 by a sputtered Pd-layer, followed by capturing protons by the N atom of the pyridyl ring (proton acceptor). The device structure is: electrode/Pd/DPPP/electrode. The appealing feature of the device is the reversible operation at room temperature as characterized by a change in elec. resistivity by two orders of magnitude even under 0.05% H2. The material is guite stable and the device is simple and compact.

IΤ 88949-26-2, 1,4-Diketo-3,6-bis-(3'-pyridyl)-pyrrolo-[3,4-c]-

pyrrole

RL: ARG (Analytical reagent use); DEV (Device component use); PRP (Properties); ANST (Analytical study); USES (Uses)

(hydrogen gas sensor based on high proton affinity of pyrrolopyrrole

derivs.) DΝ 88949-26-2 CAPLUS

Pyrrolo[3,4-c]pyrrole-1,4-dione, 2,5-dihydro-3,6-di-2-pyridinyl- (CA CN INDEX NAME)



REFERENCE COUNT: THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD, ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 5 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2005:395049 CAPLUS Full-text

DOCUMENT NUMBER: 142:435373 TITLE:

Cosmetic formulations comprising diketo pyrrolopyrrole pigments

INVENTOR(S): Wallquist, Olof

PATENT ASSIGNEE(S): Ciba Specialty Chemicals Holding Inc., Switz.

SOURCE: PCT Int. Appl., 48 pp.

CODEN: PIXXD2 DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

GI

PATENT NO.		APPLICATION NO.				
WO 2005039514	A1 20050506	WO 2004-EP52475				
W: AE, AG, A	L, AM, AT, AU, AZ,	BA, BB, BG, BR, BW,	BY, BZ, CA, CH,			
CN, CO, C	R, CU, CZ, DE, DK,	DM, DZ, EC, EE, EG,	ES, FI, GB, GD,			
GE, GH, G	M, HR, HU, ID, IL,	IN, IS, JP, KE, KG,	KP, KR, KZ, LC,			
LK, LR, 1	S, LT, LU, LV, MA,	MD, MG, MK, MN, MW,	MX, MZ, NA, NI,			
NO, NZ, C	M, PG, PH, PL, PT,	RO, RU, SC, SD, SE,	SG, SK, SL, SY,			
TJ, TM,	N, TR, TT, TZ, UA,	UG, US, UZ, VC, VN,	YU, ZA, ZM, ZW			
RW: BW, GH, C	M, KE, LS, MW, MZ,	NA, SD, SL, SZ, TZ,	UG, ZM, ZW, AM,			
		TM, AT, BE, BG, CH,				
EE, ES, 1	I, FR, GB, GR, HU,	IE, IT, LU, MC, NL,	PL, PT, RO, SE,			
		CI, CM, GA, GN, GQ,				
SN, TD,						
CN 1867314	A 20061122	CN 2004-80030532	20041008			
EP 1740145	A1 20070110	EP 2004-791177	20041008			
R: AT, BE, I	G, CH, CY, CZ, DE,	DK, EE, ES, FI, FR,	GB, GR, HU, IE,			
		RO, SE, SI, SK, TR				
		US 2006-575538	20060412			
PRIORITY APPLN. INFO.		EP 2003-103852				
		WO 2004-EP52475				
OTHER SOURCE(S):	MARPAT 142:4353					

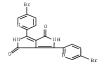
- The present invention relates to cosmetic formulations comprising at least one AB diketo pyrrolopyrrole pigment of formula I (R1 = substituted Ph, naphthyl, quinolinyl, isoquinolinyl, pyridinyl, pyrimidinyl, thiophenyl, furanyl, pyrrolyl, etc.; R2 = substituted Ph, quinolinyl, isoquinolinyl, pyridinyl, pyrimidinyl, thiophenyl, furanyl, pyrrolyl, etc.), wherein the pigments have a sp. surface area (BET) of 6 to 200 m2/q. The compns., comprising 0.0001 to 50% by weight, preferably 0.0001 to 25% by weight, of least one pigment of formula I are useful for making up the skin, both of the face and of the human body, keratinous fibers or superficial body growths, such as the nails, evelashes, evebrows or hair, and the lips. For example, a powder foundation having excellent in-use properties was prepared comprising (i) Phase A containing talc 48.20, mica and methicone (Toshiki Sericite OS-61 D) 34.00, pigment I (R1, R2 = 4-pyridinyl) 5.00, kaolin 6.00, zinc stearate 3.00, Me paraben 0.20, and Pr paraben 0.10, and (ii) Phase B containing dicapryl maleate 3.00, and PEG-400 diisostearate 0.50%, resp.
- IT 88949-26-2 777079-50-2

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses) (cosmetic compns. comprising diketo pyrrolopyrrole pigments)

RN 88949-26-2 CAPLUS

CN Pyrrolo[3,4-c]pyrrole-1,4-dione, 2,5-dihydro-3,6-di-2-pyridinyl- (CA INDEX NAME)

- RN 777079-50-2 CAPLUS
- CN Pyrrolo[3,4-c]pyrrole-1,4-dione, 3,6-bis(5-bromo-2-pyridiny1)-2,5-dihydro-(CA INDEX NAME)



REFERENCE COUNT: THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 6 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2005:301147 CAPLUS Full-text

DOCUMENT NUMBER: 143:219723

TITLE: 3,6-Di-2-pyridylpyrrolo[3,4-c]pyrrole-1,4(2H,5H)-dione AUTHOR(S): Imoda, Tomohiko; Hirota, Tsuyoshi; Takahashi, Hiroo;

Mizuguchi, Jin

CORPORATE SOURCE: Department of Applied Physics, Graduate School of Engineering, Yokohama National University, 79-5

Tokiwadai, Hodogaya-ku, Yokohama, 240-8501, Japan Acta Crystallographica, Section E: Structure Reports SOURCE:

Online (2005), E61(3), o616-o618

CODEN: ACSEBH; ISSN: 1600-5368

URL: http://iournals.iucr.org/e/issues/2005/03/00/1h63 50/index.html

PUBLISHER: Blackwell Publishing Ltd.

Journal; (online computer file) DOCUMENT TYPE: English

LANGUAGE:

The title compound, C16H10N4O2, is an organic red pigment used for H2 gas sensors. The asym. unit contains two half-mols., each mol. being centrosym. The two independent centrosym, diketopyrrolopyrrole moieties are connected by N-H···N H bonds to form a ribbon structure along [100]. The mols. are stacked in a hunter's fence' fashion (viz. when viewed from the side, mols., slipped by .apprx.70° within mol. stacks, cross each other in a fence-like structure) along the b axis,. Crystallog. data are given.

88949-26-2

RL: PRP (Properties)

(crystal structure of)

88949-26-2 CAPLUS

CN Pyrrolo[3,4-c]pyrrole-1,4-dione, 2,5-dihydro-3,6-di-2-pyridinyl- (CA

INDEX NAME)



RECORD, ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 7 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2004:872828 CAPLUS Full-text

DOCUMENT NUMBER: 141:351424

TITLE: Fluorescent diketopyrrolopyrroles Yamamoto, Hiroshi; Dan, Norihisa INVENTOR(S):

PATENT ASSIGNEE(S): Ciba Specialty Chemicals Holding Inc., Switz.

SOURCE: PCT Int. Appl., 83 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent.

LANGUAGE: English FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

						KIND DATE		APPLICATION NO.											
W						WO 2004-EP50403													
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			GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KP,	KR,	KZ,	LC,	
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			TD,	TG															
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			IE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	AL,	TR,	BG,	CZ,	EE,	HU,	PL,	SK,	HR
CI	N	1771	298			A		2006	0510		CN 2	004-	8000	9420		2	0040	401	
J1	Ρ	2006	5242	81		T		20061026		JP 2006-505506			20040401						
U	S	2007	0010	672		A1		20070111		US 2005-551976		20051005							
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II	N	2005	CN02	934		A		2007	0608		IN 2	005-	CN29	34		2	0051	109	
RIORI'	ΤY	APP	LN.	INFO	. :						EP 2	003-	1009	72		A 2	0030	410	
											WO 2	004-	EP50	403		W 2	0040	401	
THER :	SO	URCE	(S):			MARI	PAT	141:	3514	24									

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Fluorescent diketopyrrolopyrroles I [R1, R2 = (halo-substituted) C1-25 alkyl, (C1-4 alkyl-substituted) allyl, cycloalkyl, (substituted) phenyl-cycloalkyl condensed group, alkenyl, cycloalkenyl, alkynyl, haloalkyl, haloalkenyl, haloalkynyl, ketone or aldehyde group, ester group, carbamoyl, silyl group, siloxanyl, (substituted) aryl, (substituted) heteroaryl, or CR3R4(CH2)mA3; m = 0-4; R3, R4=H, C2-4 alkyl, or (substituted) Ph; A1, A1=5- or 6-membered heterocyclic ring containing 1-3 heteroatoms selected from N, O, and S] are prepared for use as guest and host chromophores in electroluminescent compns., with the absorption spectrum of the host chromophore overlapping the fluorescent emission spectrum of the host chromophore and the photoluminescence emission peak of the host chromophore being 500-720 nm. A typical I was manufactured by reaction of 27.7 g 5-bromo-2-cyanopyridine 20 h at $100-110^\circ$ with 16.2 g diisopropyl succinate in tert-amyl alc., and reaction 6 2 g intermediate 21 h with 2.4 g BuI in NMP in the presence of tert.—BuCK.

IT 88949-26-2P 128318-51-4P 777079-50-2P 777079-51-3P 777079-52-4P 777079-53-5P

777079-54-6P 777079-62-6P 777079-63-7P

777079-64-8P 777079-65-9P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(fluorescent diketopyrrolopyrroles for electroluminescent compns. based on guest chromophores having absorption spectra overlapping host fluorescent emission spectra)

RN 88949-26-2 CAPLUS

CN Pyrrolo[3,4-c]pyrrole-1,4-dione, 2,5-dihydro-3,6-di-2-pyridinyl- (CA INDEX NAME)

RN 128318-51-4 CAPLUS

CN Pyrrolo[3,4-c]pyrrole-1,4-dione, 2,5-dihydro-2,5-dimethyl-3,6-di-2pyridinyl- (CA INDEX NAME)

RN 777079-50-2 CAPLUS

CN Pyrrolo[3,4-c]pyrrole-1,4-dione, 3,6-bis(5-bromo-2-pyridiny1)-2,5-dihydro-(CA INDEX NAME)

- RN 777079-51-3 CAPLUS
- CN Pyrrolo[3,4-c]pyrrole-1,4-dione, 3,6-bis(5-bromo-2-pyridiny1)-2,5-dibuty1-2,5-dihydro- (CA INDEX NAME)

- RN 777079-52-4 CAPLUS
- CN Pyrrolo[3,4-c]pyrrole-1,4-dione, 2,5-dibuty1-3,6-bis[5-(diphenylamino)-2pyridiny1]-2,5-dihydro- (CA INDEX NAME)

- RN 777079-53-5 CAPLUS
- CN Pyrrolo[3,4-c]pyrrole-1,4-dione, 3,6-bis(5-bromo-2-pyridiny1)-2,5-dihydro-2,5-dimethyl- (CA INDEX NAME)

- RN 777079-54-6 CAPLUS
- CN Pyrrolo[3,4-c]pyrrole-1,4-dione, 3,6-bis[5-[bis(4-methylphenyl)amino]-2-pyridinyl]-2,5-dihydro-2,5-dimethyl- (CA INDEX NAME)

- RN 777079-62-6 CAPLUS
- CN Pyrrolo[3,4-c]pyrrole-1,4-dione, 3,6-bis(5-bromo-2-pyridinyl)-2,5-didodecyl-2,5-dihydro- (CA INDEX NAME)

- RN 777079-63-7 CAPLUS
- CN Pyrrolo[3,4-c]pyrrole-1,4-dione, 3,6-bis[5-(diphenylamino)-2-pyridinyl]2,5-didodecyl-2,5-dihydro- (CA INDEX NAME)

- RN 777079-64-8 CAPLUS
- CN Pyrrolo[3,4-c]pyrrole-1,4-dione, 3,6-bis(5-bromo-2-pyridiny1)-2,5-dihexyl-2,5-dihydro- (CA INDEX NAME)

- RN 777079-65-9 CAPLUS
- CN Pyrrolo[3,4-c]pyrrole-1,4-dione, 3,6-bis[5-(diphenylamino)-2-pyridinyl]-2,5-dihexyl-2,5-dihydro- (CA INDEX NAME)

- REFERENCE COUNT: THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
- L3 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 1990:468456 CAPLUS Full-text

DOCUMENT NUMBER: 113:68456

ORIGINAL REFERENCE NO.: 113:11401a,11404a

TITLE: Optical memory devices containing color changeable

dyes, and dyes therefor INVENTOR(S): Langhals, Heinz; Potrawa, Thomas PATENT ASSIGNEE(S): Riedel-de Haen A.-G., Germany SOURCE:

PCT Int. Appl., 96 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: German FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE		
WO 9001480	A1	19900222	WO 1989-EP866	19890724		
W: JP, US						
RW: CH, DE, FR,	GB, NL					
DE 3901988	A1	19900201	DE 1989-3901988	19890124		
DE 3908312	A1	19900927	DE 1989-3908312	19890314		
EP 426717	A1	19910515	EP 1989-908407	19890724		
EP 426717	B1	19960424				
R: CH, DE, FR,	GB, LI	, NL				
JP 04500935	T	19920220	JP 1989-507776	19890724		
US 5354869	A	19941011	US 1991-640367	19910129		
PRIORITY APPLN. INFO.:			DE 1988-3825943 A	19880729		
			DE 1989-3901988 A	19890124		
			DE 1989-3908312 A	19890314		
			DE 1988-3808312 A	19890314		
			WO 1989-EP866 W	19890724		

OTHER SOURCE(S): MARPAT 113:68456

AB The dyes with ≥2 different color forms, one of which can be changed to the other by supplying energy, are described which are used as storage media in optical memories. The dyes are solid state fluorescent dyes. Thus, 3,6-bis(2'-methoxyphenyl)-2,5-dihydropyrrolo(3,4-c)pyrrole-1,4-dione was prepared

Dis(2 -meinoxypienty)-2,3-damydropyffolo(3,4-C)pyffole-1,4-dfolie was prepared
11 128318-51-4P 128318-52-5P
RL: PREP (Preparation)

(preparation of, as color changeable dye in optical memory device) RN 128318-51-4 CAPLUS

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RN 128318-52-5 CAPLUS

CN Pyrrolo[3,4-c]pyrrole-1,4-dione, 2,5-diethyl-2,5-dihydro-3,6-di-2pyridinyl- (CA INDEX NAME)



L3 ANSWER 9 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 1984:87260 CAPLUS Full-text

DOCUMENT NUMBER: 100:87260

ORIGINAL REFERENCE NO.: 100:13234h,13235a

TITLE: 1,4-Dioxopyrrolo[3,4-c]pyrroles

INVENTOR(S): Rochat, Alain Claude; Cassar, Luigi; Iqbal, Abul

PATENT ASSIGNEE(S): Ciba-Geigy A.-G. , Switz. Eur. Pat. Appl., 32 pp.

SOURCE: CODEN: EPXXDW Patent

DOCUMENT TYPE: LANGUAGE:

German FAMILY ACC. NUM. COUNT: 1

PARTILI	MUU.	NUPI.	CUL
PATENT	INFO	RMATI	: NC

PATENT NO.		DATE	APPLICATION NO.	DATE
	A2	19831123	EP 1983-810202	19830511
EP 94911	A3	19841128		
EP 94911	B1	19860910		
R: AT, BE, CH,	, DE, FR	, GB, IT,	LI, NL, SE	
AU 8314447	A	19831124	AU 1983-14447	19830511
AU 568298	B2	19871224		
US 4579949 AT 22104	A	19860401	US 1983-493533	19830511
AT 22104	T	19860915	AT 1983-810202	19830511
CS 236794	B2	19850515	CS 1983-3374	19830513
CA 1236105	A1	19880503	CA 1983-428112	19830513
DK 8302176	A	19831118	DK 1983-2176	19830516
DK 153561	В	19880725		
DK 153561	С			
BR 8302570	A	19840117	BR 1983-2570	19830516
	A	19840229		
DD 209832	A5	19840523	DD 1983-250943	19830516
DD 209832	C4	19851218		
HU 32103	A2	19840628	HU 1983-1706	19830516
HU 190489	B	19860929		
SU 1225489		19860415		
PL 140881	B1	19870630	PL 1983-242009	19830516
JP 58210084	A	19831207	JP 1983-86487	19830517
JP 04025273	В	19920430		
PRIORITY APPLN. INFO.:			CH 1982-3054	19820517
			CH 1982-5468	
			EP 1983-810202	19830511

OTHER SOURCE(S): MARPAT 100:87260

GI

- AB The title compds. (I; R, Rl = isocyclic or heterocyclic radicals), useful as orange to blue pigments for polymers, are prepared by reaction of 1 mol succinic acid diester with 2 mol RCN or with 1 mol RCN and 1 mol RCN, at high temperature in an organic solvent in the presence of a strong base, followed by hydrolysis. Thus, dropwise addition of a solution of 7.31 g MeO2CCH2CH2CO2Me (II) [106-65-0] in 5.0 mL tert-amyl alc. to an anhydrous, N-blanketed mixture of 48.2 mL tert-amyl alc. 17.3 g KCCMe3, and 72.2 g PhCN [100-47-0] at 98-99° with distillation of liberated MeOH, heating at 99° for 2 h, cooling to 65°, dilution with 100 MeOH, neutralization with 10.8 mL HOAC, and heating at reflux gave 9.0 4g (62.88 yield on II) I (R = Rl = Ph) [54660-00-3], a red pigment for PVC [9002-86-2]. Thirty-five other I were prepared
- IT 88949-26-2P
 - RL: IMF (Industrial manufacture); PREP (Preparation) (pigment, manufacture of)
- RN 88949-26-2 CAPLUS
- CN Pyrrolo[3,4-c]pyrrole-1,4-dione, 2,5-dihydro-3,6-di-2-pyridinyl- (CA INDEX NAME)

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STN INTERNATIONAL LOGOFF AT 07:51:39 ON 30 SEP 2008